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PROVISIONAL SPECIFICATION.

**Improvements in and in the Treatment of Fibrous and other Materials
for Medical and Hygienic Purposes for Clothing, Air Filtration,
and other Purposes.**

We, FRANK DANIEL HADDON, of Mellor, in the County of Derby, Calico Printer,
and FREDERICK PRESTON LEES, of the Sycamores, Cheadle, in the County of
Chester, Agent, do hereby declare the nature of this invention to be as
follows:—

5 Our invention relates to improvements in and in the treatment of fibrous and
other materials for medical and hygienic purposes, for clothing, air filtration
and other purposes, and the object of our improvements is to produce a cloth
or other material suitable for the antiseptic treatment and dressing of wounds
and sores, for air filtration to purify and disinfect the air, which will relieve
10 skin irritation whether caused by prickly heat or by the bites of insects, and will
also prevent chafing when used in the manufacture of hosiery and other under-
wear.

In carrying our invention into effect we take cotton, wool or other suitable
fibre either in the raw, carded, manufactured, or partly manufactured state and
15 after cleaning and drying it we then impregnate it with minerolin or its chemical
equivalent by the application of heat preferably dry heat.

Where necessary we fix the minerolin or its equivalent in the fibre by steam-
ing, by boiling in water, or other suitable liquid, and then dry and finish in any
suitable manner desired.

20 By "mineralin" we mean the residuum produced in refining petroleum and
other mineral oils, and which has this property that it will not oxidise nor will
it saponify by any of the methods known to soap manufacturers.

Dated this 16th day of May 1899.

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H. B. BARLOW & GILLETT,
Agents for Applicants.

COMPLETE SPECIFICATION.

**Improvements in and in the Treatment of Fibrous and other Materials
for Medical and Hygienic Purposes for Clothing, Air Filtration,
and other Purposes.**

30 We, FRANK DANIEL HADDON, of Mellor, in the County of Derby, Calico Printer,
and FREDERICK PRESTON LEES, of the Sycamores, Cheadle, in the County of
Chester, Agent, do hereby declare the nature of this invention and in what

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Treatment of Fibrous and other Materials for Medical and Hygienic Purposes, &c.

manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

Our invention relates to improvements in and in the treatment of fibrous and other materials for medical and hygienic purposes, for clothing, air filtration and other purposes, and the object of our improvements is to produce a cloth or other material suitable for the antiseptic treatment and dressing of wounds and sores, for air filtration to purify and disinfect the air, which will relieve skin irritation whether caused by prickly heat or by the bites of insects, and will also prevent chafing when used in the manufacture of hosiery and other under-wear. 10

In carrying our invention into effect we take cotton, wool or other suitable fibre either in the raw, carded, manufactured or partly manufactured state and after cleaning and drying it we then impregnate it with minerolin or its chemical equivalent by the application of heat preferably dry heat.

For example, we effect the impregnation of the material by passing it through the nip of a pair of squeezing rollers of which the lower roller is rotating in a tank containing minerolin heated by means of a steam pipe or equivalent. The minerolin is applied to the material by the lower roller, and after this application is fixed thereon by stoveing the material say for forty eight hours in a drying chamber. 15 20

Where necessary we fix the minerolin in the fibre by steaming, by boiling in water, or other suitable liquor, and then dry and finish in any suitable manner desired. The material thus prepared is suitable for the antiseptic treatment and dressing of wounds and sores, and to relieve skin irritation, whether caused by prickly heat or by the bites of insects. 25

The material may also be employed for filtering, purifying and medicating air admitted to rooms and buildings.

Yarns prepared in the manner described are also suitable for use in the manufacture of hosiery and underclothing to prevent chafing and irritation of the skin.

By "minerolin" we mean the residuum produced in refining petroleum and other mineral oils, and which has this property that it will not oxidise nor will it saponify by any of the methods known to soap manufacturers. 30

Having now particularly described and ascertained the nature of our said invention and in what manner the same is to be performed we declare that what we claim is:— 35

Treating fibrous materials either in the raw, carded, manufactured or partly manufactured state with minerolin in the manner and for the purposes described.

Dated this 17th day of February 1900.

H. B. BARLOW & GILLETT,
Agents for Applicants, 17, St. Ann's Square, Manchester. 40



